

**Notice of Allowability**

Application No.

09/592,310

Examiner

Christian La Forgia

Applicant(s)

CHAUDHARI ET AL.

Art Unit

2131

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 5/30/06.
2. ☒ The allowed claim(s) is/are 1,3-10 and 12-19.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

CHRISTOPHER REVAK  
PRIMARY EXAMINER

*CR* 8/16/06

**DETAILED ACTION**

1. The amendment of 30 May 2006 has been noted and made of record.
2. Claims 1, 3-10, and 12-19 have been presented for examination.

***Response to Arguments***

3. Applicant's arguments, see pages 11 and 12, filed 30 May 2006, with respect to the rejection of claims 1, 3-10, and 12-19 have been fully considered and are persuasive. The anticipation rejection of Parthasary (USPN 5,913,192) of claims 1, 3-10, and 12-19 has been withdrawn.
4. Applicant's arguments, see pages 14-16, filed 30 May 2006, with respect to the rejection of claims 1, 3-10, and 12-19 have been fully considered and are persuasive. The anticipation rejection of Parthasary (USPN 6,233,555) of claims 1, 3-10, and 12-19 has been withdrawn.

***Allowable Subject Matter***

5. Claims 1, 3-10, and 12-19 are allowed.
6. As per claims 1, 9, 10, 18, and 19, the record has shown that it is well known in the art for receiving an identity claim; determining a target discriminant based on the identity claim and on at least one target model relating to a target individual; determining a background discriminant based on the identity claim and on at least one background model relating to at least one background individual, wherein said step of determining the background discriminant comprises providing a background profile and further determining the background discriminant based on the background profile; determining a score based on the target discriminant and the background discriminant.

7. There are no teachings in the prior art of a background discriminant as a target-dependent function of individual voiceprint-based discriminants in the background profile. Since no teachings or motivation can be found of a background discriminant as a target-dependent function of individual voiceprint-based discriminants in the background profile, claims 1, 3-10, and 12-19 are therefore novel and non-obvious.

***Conclusion***

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

9. The following patents are cited to further show the state of the art with respect to speaker authentication, such as:

United States Patent No. 6,754,628 to Chaudhari et al., which is cited to show a speaker recognition system providing for both target and background data.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christian La Forgia whose telephone number is (571) 272-3792. The examiner can normally be reached on Monday thru Thursday 7-5.

11. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on (571) 272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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12. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Christian LaForgia  
Patent Examiner  
Art Unit 2131

clf

CHRISTOPHER REVAK  
PRIMARY EXAMINER

 8/16/06